

ESTABLISHED  
1877.

# The CANTON STEEL ROOFING CO.



STEEL  
AND IRON  
ROOFING.

Fire-Proof Paints,  
Water-Proof  
Sheathing Papers  
& C.

SIDING AND CEILING.

Canton, O.

LOCAL AGENTS WANTED

T. C. SNYDER, PRES.  
CLIFFORD HOLBROOK, TREAS.

JAS. H. RICHARDSON, SEC'Y.  
T. C. BELDING, Supt

# The Canton Steel Roofing Co.,

FORMERLY CANTON IRON ROOFING CO.

## CANTON, OHIO.

ORIGINAL INTRODUCERS OF STEEL ROOFING.



### NOTICE!

We are the sole owners and manufacturers of the H. W. SMITH PATENT STEEL ROOFING, which is well known and acknowledged, wherever introduced, THE BEST METALLIC ROOFING IN THE MARKET.

All other parties manufacturing it or an imitation, selling or using it, unless bought from us, or our Agents, or using our Trade Mark, are infringers, and will be held liable for full damages.

To fully meet the demand for our goods, which has increased 50 per cent. each succeeding year, because of their superior qualities, we have made large additions to our Buildings and Machinery, and are now prepared to supply all customers promptly. We use no second-class materials under any circumstances.

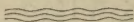


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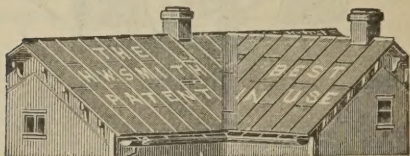
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"THE AGE OF STEEL ROOFING HAS COME TO STAY!"



# THE H. W. SMITH PATENT

FIG. 1.



## FOLDED-LOCK SEAM

# STEEL ROOFING


Is the most popular, and has a larger sale than any other roof in the world.

Nicest, most perfect and reliable plan known.


Guaranteed the best in quality, and the cheapest in the end. See testimonials and references.

Firmer seams and most secure fastenings.

Contraction overcome. Conforms to surface with uniform tension, not produced by any other plan of construction. Every roof satisfactory.

 No separate caps nor outside cleats to become loose and hold dirt and dampness.


Strong and durable, not weak and defective.

 Tools loaned and printed instructions furnished. Can be laid by any ordinary mechanic.

**Cheap, Safe and Durable.**

**Fire, Lightning, Wind, Water and Rust Proof.**

Suitable for houses, stores, barns, factories, mills, sheds, cotton gins, churches, railroad buildings, etc., in all climates.

 Samples showing plan and quality mailed free at request. Compare with others.




## WE GUARANTEE

OUR SMITH PATENT ROOFING made of GENUINE STEEL only, and not of iron. Certain other manufacturers quote Steel Roofing, but use only an ordinary quality of iron, thus deceiving customers and doing a great injustice to honest competitors.

The material used by us is manufactured specially for this Roofing by thoroughly experienced workmen, and is guaranteed to stand the test of double-seaming, either lengthways or crossways the sheets, without breaking. It is soft, pliable, box annealed, free from scale, nicer, more compact in texture, and far stronger than iron. No argument is necessary to prove its superiority for roofing purposes.

The price is now so nearly that of iron as to make it economy to use the steel.


Steel Roofing has rapidly gained the lead and is destined to hold it.

 We manufacture three kinds of Steel Roofing and make prices accordingly.

*First kind.*—BESSEMER STEEL, far superior in quality to Charcoal Iron.

*Second kind.*—GENUINE SIEMENS-MARTIN PATENT STEEL, the best quality made.

*Third kind.*—PATENT CALAMINED STEEL. This kind is coated with a combination of non-corrosive metals, and resembles Galvanized Iron, though far superior in quality, as the calamine enters the pores, and is guaranteed not to crack or scale under any test, and to solder more strongly with either rosin or acid, than galvanized iron or tin.

 Calaminated Steel is now largely used, and is the best material known for gutters and valleys.


Each kind of Steel named above makes excellent cornice, which we mention elsewhere.

## THE SIZE OF STEEL SHEETS


For our SMITH PATENT ROOFING is 27x96 inches, and of No. 26 American Gauge as given in Haswell's Engineers' Book, a standard authority for many years.

This is known as "Standard Gauge," and is the best to use, as it is very strong and constitutes a reliable base.


Heavier gauges would cost more, and could not be folded into tight joints. The gauge and quality are shown by samples which we mail at request.

 It makes a light roof, weighing about 80 pounds to the square. When made of Calaminated Steel, about 10 pounds more.

The durability does not depend on the thickness of material, as is erroneously supposed by some, but on the quality of metal, and the purity of paint used, which furnishes a perfect protection and prevents rusting.


 Paint is the protection of all metallic roofs. The Steel is the base.

Roofs made of this material, and by the Smith Patent Plan of Construction, can not break, become loose, nor get out of order, and if painted with *our roof paint*, every three to five years, will last longer than ordinary buildings, though it be a hundred years.


 For repainting material purchased from us, we will furnish our extra quality of roof Paint, ready mixed, as cheap as customers, not having necessary facilities, can obtain and prepare the ingredients properly. One quart will cover more than 100 square feet.


## PLAN OF CONSTRUCTION.

THE SMITH PATENT PLAN OF CONSTRUCTION is the nicest, most perfect and reliable that can be produced. It is easily formed, and substantial in appearance. It forms its own ridge and hip capping by a folded seam combined with the roof, and can be laid on lath, three inches apart, or on sheeting boards, and attached to either steel or tin gutters and valleys on dwellings, or any other kind of buildings.


 Some kinds of metallic roofs are not suitable for all kinds of buildings.

Sheeting boards are generally better for any kind of roof, though lath can be used with equal convenience.

 Many plans of construction for metallic roofs now on the market are objectionable, and should not be used on buildings requiring a good and tight roof, however cheap the price be.

 It is a great mistake to suppose all metallic roofs alike or of equal value.

There is as much difference in the value of the different plans of construction and quality of material, as in other kinds of goods. It is false economy to buy a faulty and inferior roof to save a small difference in price.

 No material is too good to provide the protection which roofs should furnish. The best is always the most satisfactory and the cheapest in the end.

## HOW PREPARED.


Every sheet of steel is carefully inspected and imperfect ones not used. The edges are trimmed by squaring shears, and the sheets then thoroughly painted on both sides. This is what some manufacturers call "two coats."


## THE PAINTING

Is done by machines, which paint both sides at the same time, and do the work far better than can be done by hand.

### MATERIALS USED FOR PAINTING

Are best quality Iron Oxide, ground in oil, and thoroughly mixed by machine with pure boiled Linseed Oil to the proper consistency for a perfect coating. *This paint is in perfect affinity with Steel and Iron, and will wear longer than any other ever invented.*

 It adheres tenaciously, becomes homogeneous with the material, is a perfect protection, and GUARANTEED never to crack, blister or peel,

 It stands several hundred degrees of heat and is practically fire proof. *We caution buyers against using any sheet metal coated with spurious or cheap paint.*

We make our own paint to know that it contains no cheap nor injurious ingredients, which flood the market, and are dear at any price, though well calculated to deceive any one who is not a paint expert.

### Calamined Steel Gutters and Valleys.

We solder the cross-locks, but do not paint except when so ordered.

We can furnish any length wanted, 12, 13½, 18, 24, 27, 30 and 36 inches wide, and keep in stock sheets of the following sizes: 24x96, 27x96, 27x120, 30x96, and 36x96 inches. Actual width of gutter strip charged for.

Many customers use the Siemens-Martin Steel, painted, for gutters and valleys, but as it cannot be soldered, the Calamined is usually better.



## CALAMINED STEEL ROOFING.

We prepare the CALAMINED STEEL for roofing in three ways, and make prices accordingly.


*First way.*—With the sheets painted, and connected at ends by a grooved flat-lock, the same as with Bessemer and Siemens-Martin Steel.

Unless otherwise ordered, we always prepare it this way.

*Second way.*—With the sheets soldered at end-locks, but not painted.

*Third way.*—With the sheets soldered at end-locks and painted on both sides. This way is better generally for very flat roofs.


The Steel should always be painted before the standing-seams are folded, so there will be paint on the inside to act as a cement to make the joint more secure and water tight.

 In ordering Calaminated Steel Roofing, state which way we shall prepare it.

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## PITCH OF ROOF.

Our SMITH PATENT ROOFING can be laid on any pitch not less than one-half inch fall to the foot, though one inch or more to the foot is better for any kind of roof. Our Steel being painted on both sides before folding, makes the standing-seams more water tight than such seams in tin roofs, which are not painted until after the roofing is laid, and the folding of the seams done with no paint inside.

 This Roofing, by reason of its superior plan of construction, is suitable for a flatter roof than is safe for any other Steel or Iron Roof, or standing-groove tin roof.

## A SQUARE

Of our SMITH PATENT STEEL ROOFING consists of a strip 27 inches wide by 50 feet long, or its equivalent, and 40 cleats.

135 one inch No. 12 Steel Wire Barb nails per square are required when the roofing is applied, and about one quart of mixed paint for the final coat.


Customers can buy nails and paint of us or elsewhere as preferred, as they are quoted separately.

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## HOW SHIPPED.


THE SMITH PATENT ROOFING is shipped in rolls of convenient size, wrapped in paper secured by wire.


Each roll consists of a strip containing six or more sheets, connected at ends by folded and grooved water tight cross-locks, as shown in sample. When requested we put exactly one square in a roll.

 We mark strips to cut any length desired when specifications in feet and inches are given.

Each roll is labeled, showing in figures, the length of strip contained, and its covering width, which is always two feet, or three inches less than the full width.

The length multiplied by two will give the number of square feet in the roll, as sold by us.


 We always count full length of strips, but charge nothing for the three inches allowed for standing seam.


 WRITE FOR PRICE LIST, SAMPLES AND INSTRUCTIONS.


## ROOFING TOOLS.

The SMITH PATENT ROOFING cannot be laid rightly and rapidly without using our Tools made specially for this Roofing. We always send tools, except to agents having a set of their own. We charge nothing for their use, *if returned as soon as the Steel is laid, but always charge estimated cost of the return expense.*

They must be PROMPTLY returned to us as a "BOX OF CASTINGS," (to get a lower freight rate). The customer must attach a card, showing who returned them, and send the Bill of Lading to us by mail as proof of shipment, to enable us to trace if lost in transit.

 TOOLS NOT RETURNED PROMPTLY after roofing is laid, will be considered sold, and must be paid for unless permission has been obtained to retain for further immediate use.


 When ordering examine diagrams on pages 39 and 40, and carefully follow instructions.

 See printed instructions for applying our goods, enclosed with sample.

## PRICE OF TOOLS

### For Smith Patent Steel Roofing.

1 pair 1-inch seamers.....	\$10.00
1 pair 2-inch seamers.....	10 00
1 pair 1-inch steel tongs.....	2.75
1 pair 2 $\frac{1}{4}$ -inch steel tongs .....	2.75
1 pair roofers' shears.....	2.00
1 roofing hammer.....	.75
1 roofing mallet .....	.25
1 tool chest.....	1.50
Total.....	<hr/> \$30.00

 Special price to Agents on application.

## **COST OF LABOR TO APPLY**

The SMITH PATENT FOLDED-LOCK SEAM Roofing.

The average cost is about 50 cents per square, though it varies from 25 to 75 cents.


All depends on the wages paid, skill of men employed, and size and shape of the building.

Wages in most places are from \$1.25 to \$2.00 per day, for carpenters, ordinary mechanics and roofers.

Good tinnerns and expert roofers charge from \$2.00 to \$3.00 per day.


On large plain jobs 10 squares, or more, per day to each man employed has been laid, though four to six squares is about the average.

On very steep roofs, small roofs, and where many gutters, valleys, chimneys, shuttle holes and ventilators are to be flashed, the roof will be laid accordingly slower.

 This roofing can be laid as fast as any other metallic roof, and much faster than tin roof.

### **To Estimate Cost of Roof Complete on Building.**

Add together cost of labor, freight and material, including mixed paint for final coat.

 We can furnish experienced Roofers to apply roofing at \$2.50 per day, and all expenses from starting to arrival home, but this is unnecessary in ordinary cases, as any mechanic or intelligent workman can apply the roofing after carefully reading our printed instructions, examining the cuts, and seeing our sample and tools.

The Tools cannot work wrong.

To repair roofs, see instructions enclosed with sample.



## MEDALS.

We have never exhibited our goods at expositions, but guarantee all we claim for them.

Our medals are the opinions of ACTUAL USERS.

We consider such evidence the most practical proof of the superiority of our goods. They are certainly more reliable than medals obtained at expositions where there were no competing exhibitors of such goods. Read pages 34, 35, 36 and 37.

## LIGHTNING PROOF.

This claim is not merely an advertising assertion, *but a fact. Lightning has never been known to injure a building covered with a Steel or Iron Roof.* This is conclusive evidence.

Authorities say: "Combustion cannot occur, as the large metallic surface scatters the electricity and renders it harmless." *All danger from lightning and expense of lightning rods is avoided.*

Iron bridges and iron buildings are never injured by lightning.


## WATER PROOF.

No complaints of getting out of repair or leaking have ever been reported to us, when this roofing was properly applied, according to our printed instructions.

We consider this sufficient evidence.

Can as much be said of other roofs?

HEALTHY WATER. There is nothing injurious in the paint. Its smooth surface holds but little dust, which disappears with a few minutes' rain, after which the water is clear and healthy.

 When contracting for buildings, specify *The Canton Steel Roofing Co.'s materials to be used.*

## Why Better Than Separate Cap Roofs.

Because our Folded-Lock seams are more reliable and water tight; resist capillary attraction of water better than single edges, and have no caps to become loose or detached.

Separate caps make imperfect laps, and cannot be made to conform to the upturned edges if the surface of roof boards or lath are not uniformly even, without causing the edges of caps to buckle or bulge, and in time become loose, and the roof endangered.

These objections are overcome by our plan of firm cap and sheet combined folded-lock seams, which conform to equalities.

Our flat crosslock seams are water tight and far better than when made on the roof, with nothing solid to mallet on, as is required by roofs put on in separate sheets.

Experience has proven that to have these cross-seams ready made is a far greater advantage than to have the side edges ready turned and the cross-seams not made.

## COMPARED WITH TIN.

A Steel roof is stronger, has fewer seams, can be applied faster, and on a cheaper surface.

Tin roofs rattle, get loose, and become leaky ten times as often as our Steel roofs.

Steel joints contain paint on inside which acts as a cement and prevents leaking. Tin roofs are weaker, and contain from five to twenty times as many joints, and have no paint on the inside of standing seams. Tin joints, rigid with solder, often break from vibration, contraction, and crystallization of the solder.

Steel joints are elastic, and never injured by


contraction or expansion. The tension is more uniform, and vibration does not loosen the roof. Can be repaired cheaply by any one.

Tinned roofing plates for the American market are of inferior quality to compete in price.

TIN IS MADE OF SHEET IRON, dipped in a powerful acid, which enters the pores, and cannot be washed out; then, in a solution of tin, which is run off by electric process, except 2 to 4 per cent., which is not enough to hold solder strongly. Many pores, imperceptible to the eye, are not coated, and when exposed to atmosphere, corrode quickly because of the acid. "A machine is no stronger than the weakest part." Iron is the base of tin, and paint is its protection.

Steel, having the above advantages, is more reliable.

Tin roofs are usually allowed to rust a few weeks, to take paint better, then painted at additional cost of 50 cents per square. Steel being already painted can never commence to corrode.

 In Great Britain, where all tin is made, iron is used largely and tin but little. Iron roofing plates appear in English metal quotations. These facts outweigh all theory as to tin. "Truly not all that glitters is gold."

## COMPARED WITH SLATE.

Slate requires a heavy and expensive structure to bear the weight, which is from five to seven times as much. The pitch must be steep, making more surface to cover. Often breaks from shrinkage of timbers, settling of the building, freezing, thawing, and heat from adjacent fires; blow off, and are costly to repair.

In many States firemen are not required by

law to go on slate roofs for obvious reasons.

They cannot be walked over safely while repairing gutters, chimneys, lightning rods, etc., and are not lightning proof. Driving storms force snow and rain through the laps. Slate holds more heat in summer, and more cold in winter, and leak when gutters are flooded with melting ice. In any event metallic gutters are always required as in all other roofs.


All things considered, slate roofs are more costly than generally supposed.

## COMPARED WITH SHINGLES.

The greater number of fires originate on the roof. The average life of shingle roofs is only ten years in towns, and twelve in the country. Shingles were formerly made of prime timber, but now of refuse logs, soft trees, sapplings, limbs, and odd cuttings, because prime timber is more valuable for other purposes. They are dangerous and fast becoming unpopular.

Steel roofs cost about the same, can be laid much faster, will last many times longer, look richer and better, and are safe against fire and lightning.

Shingles are dear at any price.

 Insurance is much less on buildings covered with steel.

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## ROOF LINING PAPERS.

We keep in stock three kinds :

**Neponset Water Proof Sheathing Paper,**

**Parafine Waxed Water Proof Sheathing Paper,**

**Dry Rosin Sized Felt.**



## Neponset Water Proof Sheathing Paper.

Patented Dec. 28, 1885.

ABSOLUTELY WATER PROOF.



PERFECTLY AIR TIGHT.

ORDERLESS, CLEAN TO HANDLE. NO WASTE!

The best article in the market for roof-lining.

Superior in quality, cheaper and far more durable than heavy tarred felt, and not affected by changes of atmosphere.

Protects the paint on underside of metallic roofs and deadens sound.

It is advisable to use lining paper under ALL roofs, whether steel, iron, slate or shingle, as it is a non-conductor of heat and cold, and makes buildings cooler in summer, and warmer in winter. Also prevents condensation and dampness, and makes buildings more dry and healthy.

It should be used on dwellings, churches and grist mills, or wherever gas, steam, sulphur, heat and other injurious substances come in direct contact with underside of roof.

Such papers are also now used extensively

under siding of all kinds, and between double floors in many buildings.

*They are always satisfactory, and not expensive.*

### **Parafine Waxed Sheathing Paper**

Is water proof, odorless, clean to handle, retains its moisture, does not become dry or brittle, and is an excellent article for the purpose.

### **Dry Rosin Sized Felt**

Is a good article, well known to all builders.

We can furnish Asbestos Fire Proof Paper when desired.

### **Neponset Roofing Paper.**

We can furnish parties desiring a cheap roof for temporary buildings, the Neponset Red Rope Roofing paper, and recommend it as preferable to any other cheap roofing known to us. It is odorless, light, clean to handle, and nice in appearance. Will not leak and will last several years. Anyone can apply it. Suitable paint is used to protect it. No pitch nor gravel required. Printed instructions furnished. Sample and prices furnished on application.

---

## **CORRUGATED IRON.**

All Corrugated, Crimped and Beaded Iron shipped by us is GUARANTEED DOUBLE REFINED, BOX ANNEALED, FREE FROM HOLES AND SCALES, and of Standard Gauges adopted by The National Iron Roofers' Association.

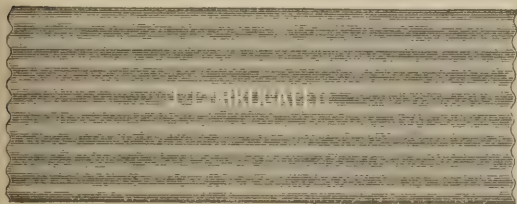
WE CORRUGATE BY PRESSURE, making one corrugation at a time, thus producing more perfect formations and better fitting laps at ends and

sides of sheets, than can be produced by any other process in use.

The usual method of corrugating by rolls, does not produce uniform corrugations, nor regular covering width of sheets.

We make three styles or sizes of corrugations as follows :

FIG. 2.

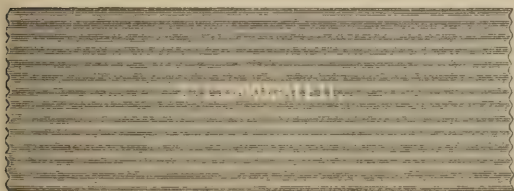


3 inches from center to center, and  $\frac{3}{4}$  inch deep.

Nine corrugations in a sheet. Full width of sheet 26 inches ; covering width, 24 inches.

This size is best for roofing, and in all cases when heavier gauges than No. 24 are used.

FIG. 3.

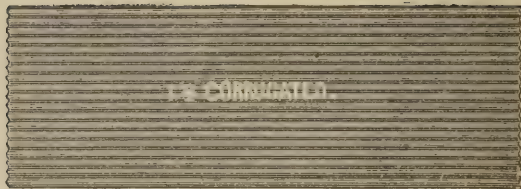


2 inches from center to center, and  $\frac{1}{2}$  inch deep.

Thirteen corrugations in a sheet. Full width of sheet 26 inches ; covering width, 24 inches.

This size is largely used for siding, and frequently for roofing and ceiling.


FIG. 4.



$1\frac{1}{4}$  inches from center to center, and  $\frac{3}{8}$  inch deep.


Nineteen corrugations in a sheet. Full width 25 inches; covering width 24 inches.


Size nicest for ceiling, also much used for siding.

 Sheets 8 feet long of Standard Gauge are always shipped, when lengths and Gauge are not specified in the order.


We keep in stock, for prompt shipment, Standard Gauge sheets, 6, 7, 8, 9 and 10 feet long, from which shorter lengths may be cut. Heavier gauges furnished on sufficient notice.


When odd lengths, as  $5\frac{1}{2}$ ,  $6\frac{1}{2}$ ,  $7\frac{1}{2}$ ,  $8\frac{1}{2}$  and  $9\frac{1}{2}$  feet are wanted, we ship sheets 6, 7, 8, 9 and 10 feet long and charge for the next greater length.

 Galvanized Iron furnished on short notice.

 PLEASE NOTICE.—When customers want iron cut to fit gables or other parts, they must furnish accurate drawings or diagram filled out, showing size and shape of spaces to be covered.

Unavoidable waste and labor in cutting charged for at full cost.

 FOR ELEVATORS, shorter sheets are generally used, and nailed as per special instructions, to better provide for settling of building.

 Iron corrugated crossways the sheet, 15 cents per square higher in price.

We do not recommend cross corrugating, how-



ever, because in laying iron corrugated this way, there is danger of the workmen not keeping the corrugates plumb, and the spring of the iron preventing the corrugations lapping as uniformly close as when corrugated the usual way.

CORRUGATED IRON ROOFING is used on some kinds of buildings, though for roofing, we advise the use of our Patent Folded Lock Seam Steel Roofing, except where heavy gauges are wanted, as the joints in corrugated iron are simply laps and liable to leak, unless one and one-half or two corrugates are used for side lap, which makes it cost as much as the Lock Seam Steel Roofing.


The object in corrugating is to stiffen and beautify.

For Roofing, lighter gauges than No. 24 should be laid on boards or strong lath not more than twelve inches apart.

Gauges Nos. 24, 22, and 20 may be laid on bearings two to four feet apart.

Gauges Nos. 18 and 16 may be laid on rafters with cross bearings four to eight feet apart.

For siding with the lighter gauges, the bearings may be farther apart than for roofing, though a nicer and better job is generally obtained by placing the bearings closer together.

 Corrugated, Crimp and Beaded Iron, when less than a car load, is shipped in crates containing from 20 to 40 sheets each, according to gauge.


### How to Order.

See diagrams, pages 39 and 40, or the ORDER SHEET, and carefully follow instructions.

Estimate how many sheets to order, and the length of sheets most suitable to furnish the proper end laps, and the number of courses of sheets

necessary to cover the surface, to avoid unnecessary cutting and waste.

Always allow for such end lap as you wish to use, which, on roofs should be three to six inches according to pitch, and on siding and ceiling one to two inches. Name each article wanted.

 Remember the covering width of all our Roofing, Siding and Ceiling, is always two feet.

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## RULE OF MEASUREMENT.

ESTABLISHED BY THE NATIONAL IRON ROOFERS' ASSOCIATION, ON WHICH ALL PRICES ARE BASED.

FOR CRIMPED EDGE IRON.—The actual covering width and full length of sheets charged for.

FOR BEADED IRON.—The actual covering width and full length of sheets charged for.


FOR CORRUGATED IRON.—The full width and length of sheets charged for; no allowance for laps on sides or ends.

The rule on width for *corrugated* iron differs from the rule for crimped edge and beaded iron, because more than one corrugate is frequently used for side lap, especially for roofing; hence, the *full width of corrugated sheets* is charged for.

The full width of the three and two inch corrugated sheets is 26 inches, being two inches more than the covering width.

On the 1 $\frac{1}{4}$  inch corrugated sheets, 25 inches, or one inch more than the covering width.

Ridge Capping, Corner Iron, Cornice, Etc., charged for by the lineal foot.

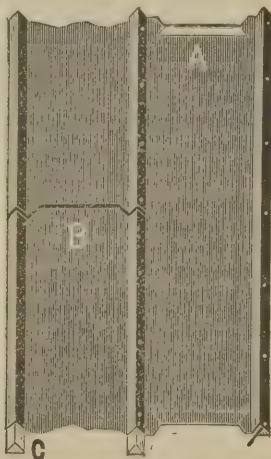
 Nails, tools, wood strips, paint, sheathing paper, etc., charged for as additional items.

## CRIMPED EDGE IRON.

FIG. 6.



FIG. 7.



Much used for Roofing and Siding. Easily applied.

Regular length sheets 8 feet, Standard gauge, always in stock; also all other lengths same as for Corrugated iron as described on page 18.

Covering width two feet, after lapping one edge which we allow on this iron.

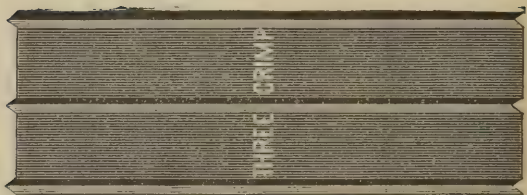
Should be nailed as indicated by Figure 7, over triangular shaped wood strips which we furnish at cost.

End laps should be used same as described for Corrugated iron on page 20. Another way, shown by Figure 7, is to cut and turn a hem at ends; price this way 10 cents a square higher.

Tool for turning ends, 50 cents; material same quality as for Corrugated iron.

## THREE CRIMP IRON.

FIG. 8.



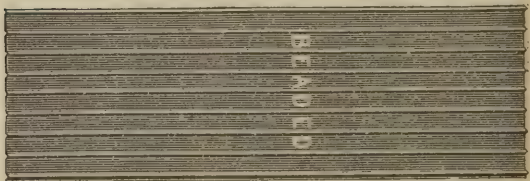
Sheets of same length, gauge and quality, as for crimped edge iron, kept in stock.

Covering width, 24 inches, after lapping one edge, which we allow on this iron.

The center crimp stiffens the iron and adds to its appearance, imitating batten boards. Apply in same manner as the crimped edge iron.

## BEADED IRON.

FIG. 9.



The Cheapest of All.

Sheets of same length, gauge and quality as for crimped edge iron. Covering width, two feet, after using one bead for side lap, which we allow on this iron.

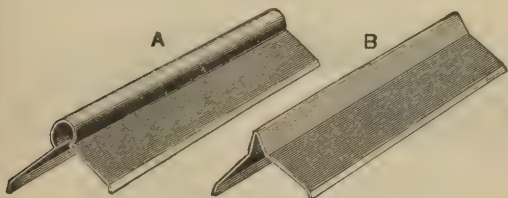
Beaded iron is very nice for siding and ceiling, and imitates three inch boards. The beads are  $\frac{3}{8}$  inch wide and  $\frac{1}{8}$  inch deep, and three inches from center to center.

Can be applied perpendicularly or horizontally to boards, or cross lath set the proper distance apart, or over plastered ceilings.




## Ridge Roll and Ridge Cap.

FIG. 10.

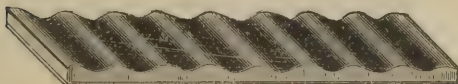


For Corrugated and Crimped Roofing.

In 8 feet lengths, to be nailed or riveted to place.  We make angle iron and cornice in 8 feet lengths for corners, eaves, and gable projections to order.

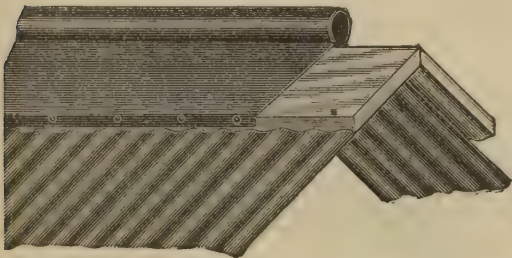
## Corrugated Wood Ridge Joint.

FIG. 11.



To be used under ridge roll for perfect fitting and tight joint on ridges and hips. Is flat on one side and corrugated on the other.

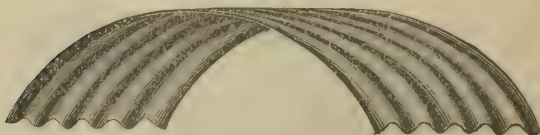
FIG. 12.



Showing application of Ridge Roll and Wooden Ridge Joint.

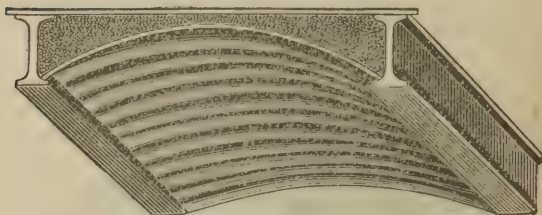
## CURVED CORRUGATED IRON.

FIG. 13.



Curved to any Specified Radius for Roofs.

FIG. 14.

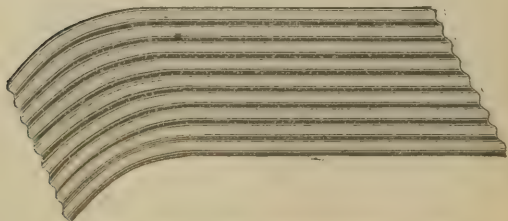


Curved Iron Ceiling for fire proof buildings.

When ordering, follow instructions on diagram sheet, showing how to order.

Made only to special order on sufficient notice to get iron made to lengths required.

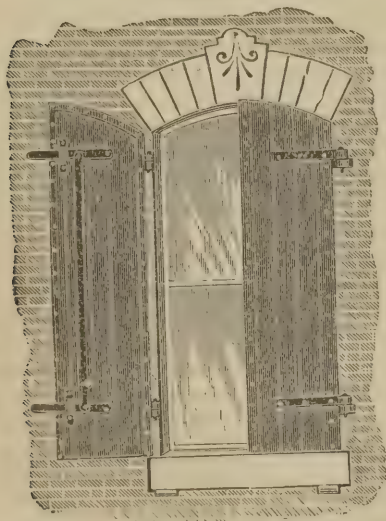
FIG. 15.




CURVED FOR AWNINGS PORCHES, ETC.

## Fire-Proof Doors and Shutters with Fastenings.

FIG. 16.



The body is wood covered each side with our Beaded Iron, which projects one inch at tops and sides, riveted every three inches.

 Shutters and Doors, constructed in this manner, stand extreme heat better than solid iron.

In ordering, follow instructions on diagram sheet showing how to order.

### Insurance

Is less on buildings covered with Steel or Iron.

It is a well-known fact, that *Steel and Iron are the most fire-proof coverings in the world.*

## AGENCIES.


An agent for our goods means simply a customer for his place and vicinity. We refer all inquiries from said territory to him. He buys the goods from us when wanted, and makes his own selling prices to his customers.


*We furnish no goods to be sold on commission.*

We give certificate of agency and charge nothing for territory, but we require him to buy tools within three months, otherwise the agency will be considered abandoned, and revoked at our option.

He may hold the agency so long as he complies with the agency contract and buys not less than \$200 worth of our goods each year.


Should he ever wish to quit the agency, we will take the tools back at cost, less \$5.00 per year.

 We furnish to each agent, free of charge, lithograph poster cards and circulars, printed specially for his use with the agent's name printed thereon. We also furnish electrotypes if he desires to advertise in local newspapers.

 Any one not desiring to buy tools may sell our goods so long as he returns tools according to our rule on page 9, but, until he buys tools, we do not refer inquiries to him.

It will be to his interest to own a set of tools, and save the inconvenience and expense of return charges, as they amount to much more than \$5.00 per year.

Where we have no agent we sell to consumers. Any one may sell our goods in territory not taken.

 Agents desiring to give the best satisfaction, baffle competition, and build up a large trade in this business, must sell only the best plan, and quality of goods, and be energetic and business-like at all times.

## TERMS.

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Small orders from transient customers must be accompanied with the cash.

Goods shipped on cash quotations, *must be paid for on delivery.*


Parties known to be responsible and prompt, may have 30 days by so stating in the order.

Parties desiring credit must have good commercial rating, or known to be responsible and prompt. All others must send reliable references, from whom satisfactory reports must be received before shipping.

Remittances must be made by New York draft or P. O. order, and *not by personal check*, unless exchange is added.

*Exchange, Express Charges and Telegrams must be Prepaid.*

Accounts not remitted when due are subject to sight draft. No extension allowed except on bankable note, with interest at 8 per cent.

 Our prices are always as low as our quality of goods will allow. We pay no heed to materials of inferior quality or defective plan of construction. We warn customers against buying such. Our goods are worth far more. Compare our samples with others.

Respectfully,

THE CANTON STEEL ROOFING CO.


## ROOF PAINT.


BRIGHT RED AND PRINCES BROWN.—THOROUGHLY MIXED BY MACHINE.

FIG. 16.




To best protect our goods and save our customers the trouble of procuring the necessary ingredients to prepare paint with meager facilities, and to protect buyers from using spurious paints, which flood the market, and are very deceiving to all except experts, we have procured all necessary facilities, and now furnish *the two standard colors* of ready mixed paint, made from STRICTLY PURE BOILED LINSEED OIL, and GENUINE IRON OXIDE PAINT, reground and uniform in quality.

 We GUARANTEE our mixed paint free from all injurious substances. It CONTAINS NO DRYER AND NEEDS NONE. Paints that do, are not free from cheap and injurious ingredients.

 All dryers are more or less injurious, and make the paint brittle and thin.

This paint will wear longer and protect better than any other kind ever made, and is in perfect affinity with metal.

 The National Association of American Engineers, at their last Convention, decided that a Pure Boiled Linseed Oil Paint will positively arrest and prevent corrosion, and that no other paint can be relied on for this important purpose.

 One gallon spreads a good coat over 500



or more square feet, and is GUARANTEED never to crack, scale, blister nor peel.

It is suitable for metal, wood, stone or brick.

Prices as low as the quality affords.

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
## Dry Iron Ore Paint. Color Red.


FIG. 17.



GUARANTEED EQUAL IN ALL RESPECTS TO ANY OTHER METALLIC PAINT, and to be ground finer and spread farther.

We challenge any other to spread as far.

 It is FIRE PROOF, and guaranteed never to crack, scale, fade or peel. Does not run in streaks nor settle in the bucket. Cheapest and best to use on Iron, Tin, Wood or Brick.

 If not satisfactory, return at our expense and we will refund all money paid.

---

## Elastic Roof Cement.

GUARANTEED THE BEST IN THE MARKET.

For pointing up and preventing leaks in metallic roofs, flashing, chimneys, copings, skylights, gutters, cupolas, dormer windows, slate, stone, brick or wood. Very adhesive and sticks to any thing. WILL NOT CRACK in summer or winter. Easily applied with knife or trowel. More reliable than solder, and largely used.

# Roofing Nails.—Steel Wire Barbed.

FIG. 18.

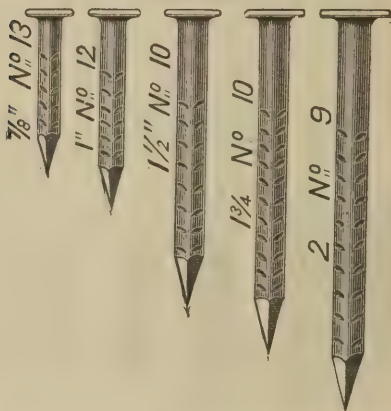
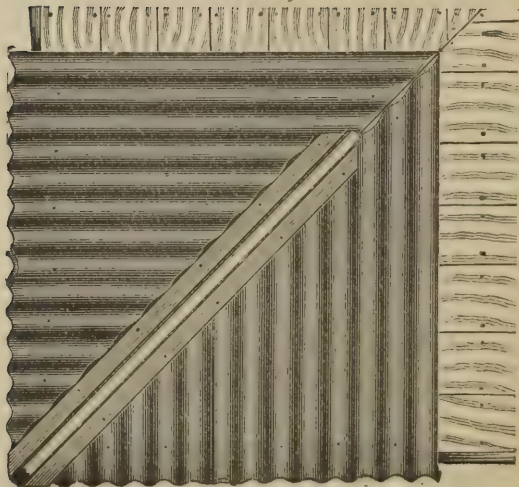
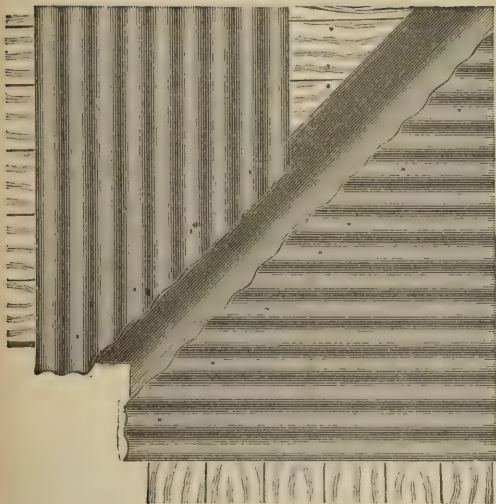


FIG. 19.



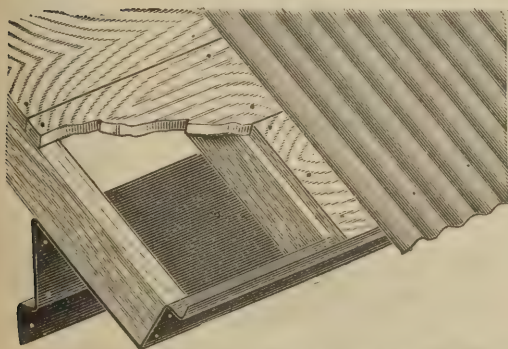
Showing Application of Ridge Roll.

FIG. 20.



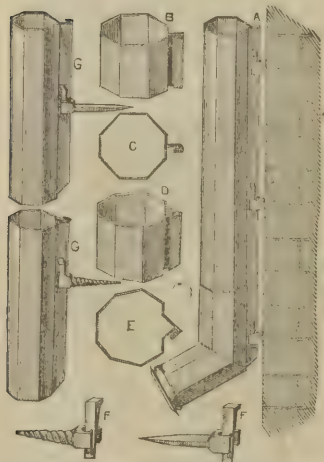
Showing Valley in Corrugated Iron Roof.

FIG. 21.

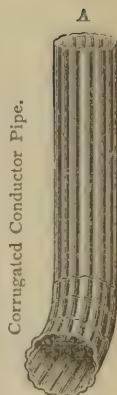


CORNICE, in 8 ft. lengths, with or without Ogee Moulding, also corner strips, coverings for widow and door casings, etc.

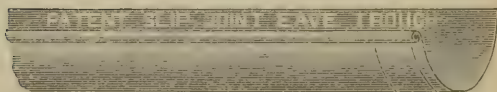
# PATENT SOLDERLESS STANDING SEAM CONDUCTOR PIPE.



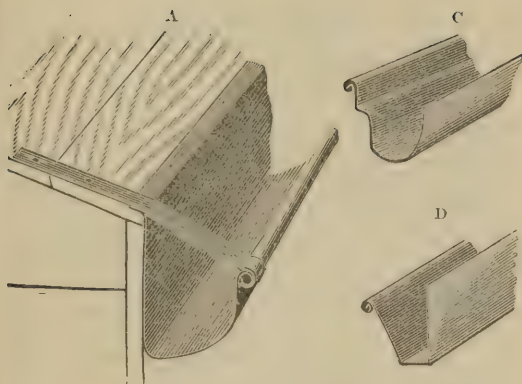
- A.—Section of Pipe and Shoe put up.
- B.—Section of Pipe as made.
- C.—Cross Section of same.
- D.—Section of Pipe opened by ice.
- E.—Cross Section of same.
- F.—Fastener, Spike or Screw.
- GG.—Sections ready to put together.



C



In 10 Foot Sections, with Steel Hangers.  
No Solder Required.



## HANGING GUTTER.

### WEIGHTS

Of Steel and Iron Roofing, Siding and Ceiling,  
per square of 100 square feet, established by The  
National Iron Roofers' Association.

#### STANDARD GAUGE.

Standing Seam Roofing,	} 75 pounds.
Crimped Edge Roofing and Siding,	
Beaded Siding and Ceiling,	

#### NO. 24 GAUGE.

Crimped Edge Roofing and Siding,	} 103 pounds.
Beaded Siding and Ceiling,	

#### CORRUGATED IRON.

Standard Gauge	.....	75 pounds.
No. 26	“ .....	83 “
No. 24	“ .....	103 “
No. 22	“ .....	127 “
No. 20	“ .....	156 “

In shipping, the crates and boxes will add ac-  
cordingly to the weight.

## TESTIMONIALS.

### The Life of Iron Roofs.

MARSHALLTON, DEL., August 14, 1888.

*To the Editor:* Noticing in *The Iron Age* of the 9th inst. an article "The Life of an Iron Roof," I would state that my barn is covered with an iron roof which was put on in 1846. This roof is the ordinary standing groove, and, beyond painting every three or four years and some slight repairs caused by the blizzard last March, has cost nothing since it was put on. We have a house in Wilmington that has a similar roof, put on in 1850, and, except an occasional painting, has cost nothing for repairs. An adjoining tin roof of about same size, put on at same time as the iron roof, has required as much painting as the iron roof, and cost over \$100 additional on repairs. Both the iron roofs above mentioned are in perfect condition to-day. Very respectfully,

J. R. BRINGHURST.

Beaver Falls, Pa., July 18, 1888.

Gentlemen:—We feel it our duty on the completion of your contract for roofing and siding our new factory buildings, to say that the work has been done in a manner altogether satisfactory to us, and that we are *entirely satisfied* both with the material and workmanship.

Yours truly,  
H. W. HARTMAN, Pres't.

Muncie, Ind., Dec. 26, 1888.

Gents:—The 1,000 squares Corrugated Iron placed on our glass plant here last fall is *highly satisfactory* in regard to material and workmanship.

Yours truly,  
MARING, HART & CO.

Maitland, Fla., Dec. 24, 1888.

Gentlemen:—Your H. W. Smith Patent Steel Roofing is *perfectly satisfactory*, and I believe it to be *the Roofing for this country*. Though costing a little more to begin with, it is the cheapest Roofing in the long run.

Yours truly,  
GEO. H. PACKWOOD, SR.

Midland Park, N. J., Dec. 26th, 1888.

Gentlemen:—It gives us pleasure to state that we have applied your Steel Roofing to all of our buildings and several others besides, and it has given *perfect satisfaction* in all cases. In fact, it is far superior to any other roofing that we have ever seen.

Yours truly,  
HOLT BRO'S & CO.

Silk Manufacturers.

Litchfield, Ill., Dec. 29, 1888.

Gentlemen:—We take much pleasure in stating we are highly pleased with the Bessemer Steel Roofing and Corrugated Iron Siding furnished by you for our elevator. The uniformity and closeness of laps of the material furnished us makes the building *weather and water proof*, and a square of it covers more surface than a square of any other siding we have used.

Yours truly,  
LITCHFIELD MILLING CO.  
Manufacturers of flour.



Paterson, N. J., Dec. 21, 1888.

Gentlemen:—We take pleasure in recommending the H. W. Smith Patent Steel Roofing, also the siding for buildings &c. We find them to be *durable and satisfactory* in every respect.

Respectfully,

STANDARD OIL CO., OF N. J.

Paterson Branch.

Etna Mills, Cal., Dec. 5, 1888.

Gentlemen:—I think your roofing is *just the thing* for this country. It just *knocks h—l out of anything I ever saw*.

A. PARKER & SON.

Winchester, Va., Dec. 22, 1888.

Gentlemen:—Your Roofing was pronounced by the party we employed to put it on our factory *the best quality he ever used* and since then he has been ordering it for others, and we think it will be generally preferred.

Yours respectfully,

KERN, BARR & CO.

Seth P. O., O., May 15, 1888.

Gentlemen:—Your Roofing fills the bill completely. Went on very nicely, and *no flaws in it at all*.

Yours,

J. R. PROCTER.

Stanford, Ill., Dec. 26, 1888.

Gentlemen:—The Corrugated Iron and Steel Roofing bought of you this year so far pleases our customers. We are using the Corrugated Iron, and are free to say that we are well pleased with it and think it more durable than wood.

Yours &c.,

C. ROTH & CO.

Williamsburg, Pa., Jan. 14, 1888.

Gentlemen:—I have been using your Iron Roofing for several years. I can recommend it to anyone who wants a *first class roof* for any kind of a building. I have put it on churches, dwellings, out buildings and grist mills. It gives *perfect satisfaction*.

Yours respectfully,

D. M. THOMPSON.

Hardware, stoves and pumps.

Exira, Ia., Dec. 24, 1888

Gentlemen:—I consider your Bessemer Steel Roof the *very best*. My patrons are enthusiastic over it, and will have no other.

Yours,

A. C. SMITH.

Bazine, Kan., Nov. 12, 1888.

Gentlemen.—The Roofing came all O. K., and we have it all on building. To say that it is *perfectly satisfactory* is mildly expressing it. Good judges say that it is the *finest Roofing they ever saw*.

Yours,

MOONEY & MOONEY.

General Merchandise.

Okolona, Ark., Dec. 26, 1888.

Gentlemen:—We are using your Patent Steel Roofing on our Gin house, and can recommend it as the *best roof for that kind of a building* as it is fire proof.

Yours truly,

ROSS & HAYS.

General Merchandise.

Orangeville, Pa., Jan. 4, 1889.

Gentlemen:—I take pleasure in saying that I have used a large amount of your roofing in the past three years, and that it has given *perfect satisfaction in all cases*, and without hesitation I pronounce it the best roofing in the market. I have followed roofing and tinning for twenty years.

Yours truly,

G. N. SMITH.

Maitland, Fla., Dec. 24, 1888.

Dear Sir:—The H. W. Smith Patent Steel Roofing you put on for me in May has given *perfect satisfaction*. I am so well pleased that I wish you to cover another room for me at once. I believe it is *just the thing for this country*.

Yours truly,

B. J. TALIOFORRO

To D. A. MORRISON, Ag't, Maitland, Fla.

Berrien Springs, Mich., Dec. 15, 1888.

Gentlemen:—I have handled your roofing for two years, and it has given *entire satisfaction* in every instance. I know it is the best roofing in the market.

Yours,

R. RENNIE.

Rutherford, N. C., Dec., 29, 1888.

Gentlemen:—The roofing used on our court house and jail, furnished by the Canton Steel Roofing Company, gives *entire satisfaction*, and we heartily commend it as durable and economical. It should always be put on by a good workman, and in that case no fault can be found in its use.

L. P. ERWIN, Reg. Deeds for Rutherford, N. C.

Kerrville, Tex., Dec. 28, 1888.

Gentlemen:—I have given your Patent Steel Roofing a *thorough trial*, and it is just as represented. I cheerfully recommend it to anyone needing anything of the kind. Have sold quite a lot, and it has given *entire satisfaction*.

Yours truly,

CHAS. SCHREINER.

General Merchandise.

Pipersville, Pa., July 13, 1888.

Gentlemen.—Your Steel Roofing is very easily put on and it *more than meets my expectations*. There is not one crack or flaw in the steel for my whole roof.

Yours,

C. M. MYERS.

Flour and feed.

Franklin, Neb., Dec. 20, 1888.

Gentlemen.—Your Iron and Steel Roofing never fails to give satisfaction where it is used in this windy country. It *beats all other* metallic roofing.

Respectfully,

E. M. BEACH.

Buena Vista, Col., Dec. 27, 1888.

Gentlemen.—It gives me great satisfaction to be able to praise your roofing. I have used it on seven business houses here in Buena Vista, also on three private houses, and it has given *satisfaction in every case*, and I cannot speak too highly of it. I shall continue to use it and urge every one that builds to use it.

Yours truly,

E. W. PAINE.

Builder.

Little Utica, N. Y., Dec. 26, 1888.

Gentlemen.—Having used about 100 squares of H. W. Smith Patent Steel Roofing on my own buildings, and having sold several hundred more squares in my section, can say that it has given the *best of satisfaction* in every case.

Yours.

WM. FENNER.

Vernon, Tex., Dec. 27, 1888.

Gentlemen:—We have been selling Iron Roofing quite extensively the last year, and we find yours to be *superior to any other*. We would advise anyone wanting good roofing to purchase from you.

Yours truly,

SCURLOCK & RALSTON.

Wholesale stoves, tinware and hardware.

Mount Healthy, O., Nov. 14, 1888.

Gentlemen:—The roof purchased from you is entirely satisfactory to all parties. It has passed through the hardest rains we have had for years, and is *perfectly sound and as pretty as a pink*.

Resp'y yours,

E. B. STOUT.

Titusville, Pa., Dec. 26, 1888.

Gentlemen:—Your Corrugated Iron Siding is uniform, corrugation perfect, fitting closely at the laps and when the work is completed, it looks *uniform, neat and durable*.

Yours truly, D. D. HUGHES & SON.

Tin, copper and sheet iron workers.

Barboursville, W. Va., Dec. 29, 1888.

Gentlemen:—We used first your Iron, and are now using your Steel Roofing, with very *satisfactory results*. Every person we have roofed for are pleased.

Yours truly

THORNBURG BROS.

General Merchandise.

Rochester, Mich., Dec., 29, 1888.

Gentlemen:—I put on about 100 squares of your Patent Steel Roofing last summer, and it gives *general satisfaction*, for it is very nice and is A No. 1.

Yours truly,


HENRY LEHMAN.

Carpenter and builder.

### FIFTY YEARS.

T. C. SNYDER, Pres't:—The Iron Roofing on my old bank building, which you have examined, was put on in 1838. It has never leaked to my recollection. It has been painted but a few times, and still seems to be as sound as ever.

BERNARD KINNEY, Ravenna, O.

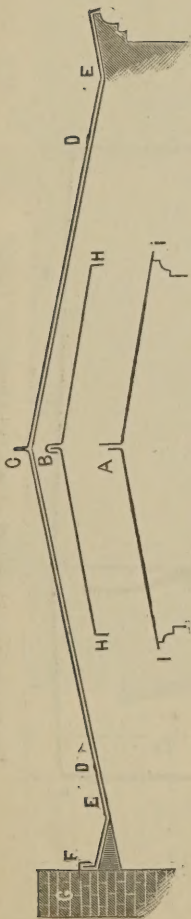
 We have thousands of such letters on file, but the above are sufficient to prove the superior quality of our goods over others on the market.

## REFERENCES.

---

G. D. Harter & Bro., Bankers	Canton, Ohio.
The Canton Schuyler Electric Light Co.	Canton, Ohio.
Barney & Smith M'f'g Co., Manufacturers cars.	Dayton, Ohio.
American M'f'g & Supply Co., Miners Supplies	New York.
The Clark Thread Co.	Newark, N. J.
H. M. Cook, Stoves and Tinware	New Castle, Me.
E. W. Colburn, Carpenter	Francestown, N. H.
Reed & Patrick, Stoves and Tinware	Hinesburgh, Vt.
O. D. Sykes, Stoves and Tinware	Seymour, Conn.
L. Gernon, Mill*Contractor	Boston, Mass.
Metzger Roofing Co.	Beaver Falls, Pa.
Martin S. Motz, Contractor and Builder	Ossian, Ind.
Geo. Sinniger, Hardware	Auburn, Ill.
Ira C. Alger, Millwright	East Saginaw, Mich.
E. R. Bogardus, Builder	Mason City, Ia.
H. W. Reighley, Pur. Ag't M., L.S. & W. Ry.	Milwaukee, Wis.
St. Paul Roofing and Cornice Works	St. Paul, Minn.
H. B. Deas, Manufacturers' Agent	Atlanta, Ga.
Scurlock & Ralston, General Merchandise	Vernon, Tex.
D. F. Carrier, Tinner	Athens, Tenn.
T. C. Pincard, Hardware	Opelika, Ala.
J. W. B. Newton, General Store	Negro Foot, Va.
Natchez Cotton Mills Co.	Natchez, Miss.
Winifrede R. R. Co.	Winifrede, W. Va.
N. E. Whitman, Builder	Lewisville, N. C.
Graniteville M'f'g Co., Cotton Goods	Graniteville, S. C.
David Barnhart, Builder	Leitersburg, Md.
Blackman Bros., Contractors	Sioux Falls, Dak.
J. Flegle & Son, Millers	Arlington, Ky.
Island City Mercantile and Milling Co.	Island City, Oregon.
N. H. Barnes, Hardware	Wahoo, Neb.
Maier & Zobelein, Brewers	Los Angeles, Cal.
John Spencer, Ranch	Austin, Nevada.
J. B. Broadbent, Jeweler	Boise City, Idaho.
T. P. Robinson & Co., Drugs	Holbrook, Arizona.
Manufacturers' Agency Co.	Denver, Colorado.
Burton Lumber Co.	Baton Rouge, La.
Geo. M. Scott & Co., Hardware	Salt Lake City, Utah.
D. A. Morrison, Builder	Maitland, Fla.
John Schepeler, Builder	Lohman, Missouri.
R. W. Goff, Hardware	Winchester, Kansas.
Ross & Hayes, General Store	Okolona, Arkansas.
Thos. Keith	Ontario, Canada.

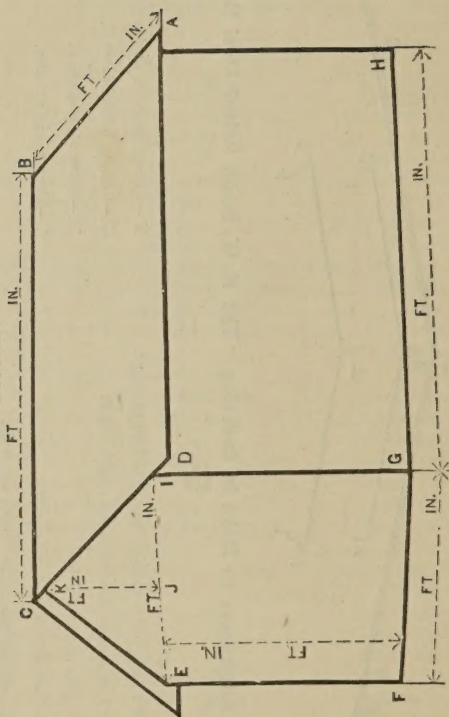
FIG. 22.



Showing Allowances to Make in Ordering "The H. W. Smith Patent Steel Roofing."

- |   |   |
|---|---|
| A.—Shows the 1 inch and a 2 inch edge turned up at ridge. | F.—Shows counter flashing on fire wall, |
| B.—Shows the 2 inch edge bent over the 1 inch edge.       | G.—Shows brick fire wall,               |
| C.—Shows the ridge seam finished.                         | H.—Shows lap at eaves.                  |
| D.—Shows flat lock attaching roof to gutter.              | I.—Shows drip at eave.                  |
| E.—Shows wide gutter flashed to a brick fire wall.        |   |

FIG. 23.



Fill out diagram, cut out leaf, and send with order.  
 State whether you have made allowance for laps. See page 22.  
 GIVE ACCURATE AND DETAILED SPECIFICATIONS. Name each article wanted.



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## EXPLANATIONS

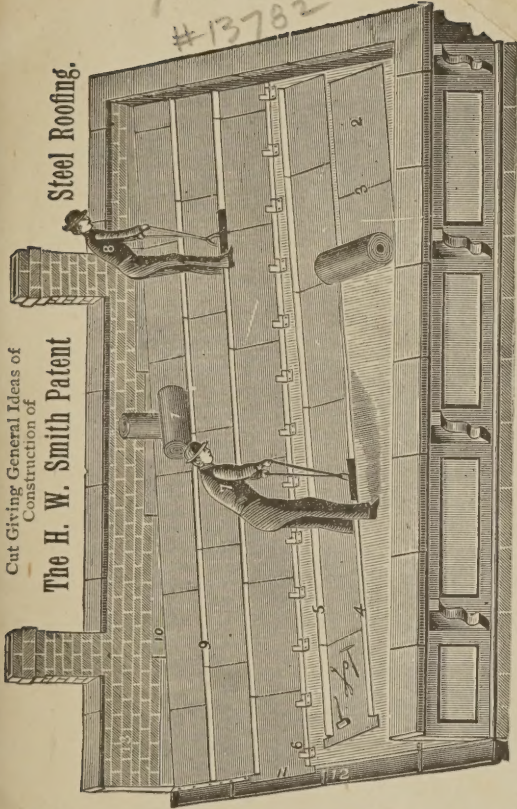
### TO CUT.

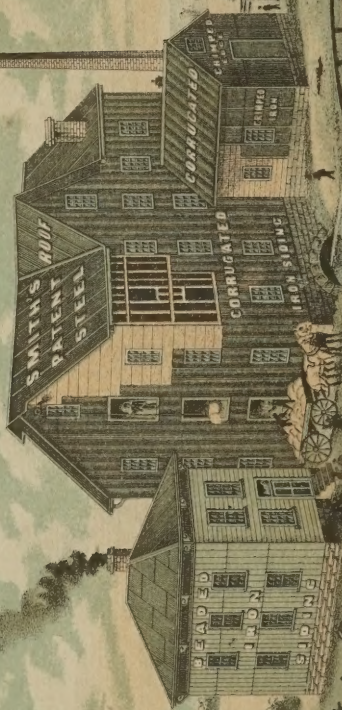
- 1—The Roofing in Rolls.
- 2--The Roofing as unrolled.
- 3--Cross-lock or Flat Seam.
- 4--1-inch Edge turned up with Tongs.
- 5--2¼ inch Edge turned up with Tongs.
- 6--Cleats or Fastenings.
- 7--Man turning Edges with Tongs.
- 8--Man folding Edges with Seamers.
- 9--Finished Standing Folded Lock Seam.
- 10--Flashing along the Fire Walls.
- 11--Lap to turn down at Eaves and Gable Edges.
- 12--Eave Trough.

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Cut Giving General Ideas of  
Construction of  
The H. W. Smith Patent

Steel Roofing.





W. B. & C. 1870